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UNITED STATES DEPARTMENT OF AGRICULTURE
RURAL ELECTRIFICATION ADMINISTRATION
WASHINGTON 25, D. C.

April 9, 1951

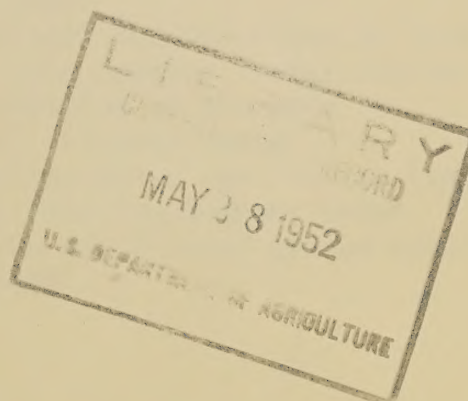
To : All System Engineers and System Managers
From : J. K. O'Shaughnessy, Chief,
Engineering Division
Subject: Current Engineering Memoranda

Attached is a list of Engineering Memoranda which are in effect as of April 9, 1951. Kindly check the supply which you have on hand against this list. Request any Memoranda which you do not have, and limit such request only to those which are missing.

It is strongly recommended that a complete set of current Engineering Memoranda be kept in a loose leaf binder for reference. Memoranda no longer in effect should be removed from the binder.

J. K. O'Shaughnessy

Attachment



CURRENT ENGINEERING MEMORANDA
ISSUED BY
ENGINEERING DIVISION

<u>NUMBER</u>	<u>TITLE</u>
1R3	Loading Districts
7R4	Adequate Grounding on Distribution Line
21R4	Fuse Ratings
22R	Defective Materials
33R4	Voltage Drop
46R4	Location of Overhead Distribution and Trans- mission lines in the Vicinity of Landing Areas and Radio Range Stations
50R6	Conductor Installation
52R2	Cost Breakdown
53R2	Changes or Corrections in Line Construction
58R6	Final Inventory Documents, Labor and Material Contracts, REA Form DS-7R
60R2	Selection of Transformer Sizes
63R5	Energizing Procedure for Distribution-Type Borrowers
64R4	Pole Numbering
69R7	Reduced Size Neutral For 12.47/7.2 and 24.9/14.4 KV Systems
71R2	Advertisement of Bid Openings
72R18	Pole Inspection Companies and Inspectors
78R4	Payment of Prevailing Wages in Connection with Construction of Electric Facilities by Rural Electrification Administration Borrowers
Supplement No. 1 to 78R	Submission of Contractor's Pay Rolls
80R4	Economical Choice of Poles
82R2	Elimination of Objectionable Radio Interference Due to Faulty Construction or Defective Equipment on Borrowers' Lines
83R1	Accident Reports
87R4	Instructions to System Engineers Concerning Problems of Securing Clear Route for REA Line Construction
92R2	Procedures in Preparation of Construction Contract Amendments
93R6	Right-of-Way Clearing for Distribution-Type Borrowers
94R5	Substations for Distribution Type Borrowers
95R6	Meter Loop Service Installations and Termination of Services
97R1	Special Assembly Units
113R3	Industrial Power Application (Large Power)
118R2	Use of Line Abandonment Order
120R2	Location and Size of System Sectionalizing Devices

2-Current Engineering Memoranda

<u>NUMBER</u>	<u>TITLE</u>
123R3	Automatic Circuit Reclosers
128	Conductor Separation to Meet Code Requirements
133R2	Specifications for the Treatment and Inspection of Treated Timber Purchased by REA Borrowers
Supplement No. 1 to 133R2	Alternative Specifications for the Treatment and Inspection of Treated Timber Purchased by REA Borrowers
Supplement No. 2 to 133R2	Specifications for Distribution Line Crossarms - ("In the White") - Purchased by REA Borrowers
Supplement No. 3 to 133R2	Treatment Report Instructions - Treatment and Inspection of Treated Timber Purchased by REA Borrowers
136R3	Removal of Lines from Military Areas
140R4	Suggestions for Use of Steel Conductor
143R4	Maximum Span Length Based Upon Pole Strength for Class 8 and 9 Poles
145R6	Service and Secondary Conductors
151	Engineering Assistance to REA Borrowers by Manufacturers or Material Suppliers
153R7	Changes in Construction Contract, REA Form DS-7R2 and DS-7OR4
154R	REA Maps for Distribution-Type Borrowers
158R	Workmen's Compensation Insurance Requirements of Engineering Service Contracts
159R2	Progress Schedule
160R	Inductive Coordination with Communication Lines
161	Loan Funds for Force Account Labor in Connection with Construction Under Contract
162R	Preparation of Plans and Specifications
164R1	Award of Contracts Based on Competitive Bidding
167R2	Payments Due Contractors, Borrower's Engineers and Suppliers
169R	Selection of Type of Conductor
170R	Construction Procedures for Distribution Systems
171R2	Guys and Anchors for Distribution Systems - Grade C
172	Construction of a Project by Force Account
Supplement No. 1 to 172	Payment to System Engineers for Preliminary Plans and Specifications
Supplement No. 5 to 172	Monthly Progress Report, REA Form DS-188
173	Unloading and Storing Poles
174	Final Inventory Documents - Construction of a Project by Force Account
175	System Study
177R2	Insurance Requirements of Construction Contractors under Contract with REA Borrowers
178	Construction for Power Supply Conductors (7.2/12.5 KV) Crossing Communication Lines

3 - Current Engineering Memoranda

<u>NUMBER</u>	<u>TITLE</u>
179	Final Inventory Documents, Labor Only Contracts
Supplement No. 1 to 179	Final Inventory Documents, Labor Only Contracts - Scrap Conductor and other Non-Usable Materials
181	Checking Sag by Return Wave Method
182R	Power Loss in Conductors
184	Paralleling Power Transformers
186R	"Buy American" Certificate, REA Form DS-127 Aluminum Conductor and Aluminum Accessories Copper Conductor and Copper Accessories
189	Two-Way Communication Facilities
Supplement No. 1 to 189	Two-Way Mobile Communication - General Considerations
Supplement No. 2 to 189	Two-Way Radio Antenna Towers or Supporting Structures
Supplement No. 4 to 189	Allocation and Coordination of Frequencies for Radio Communications
191	Investigation of Defective Pole Shipments
192	Engineering Services
194	Approval of Final Plans and Specifications
195	Revised Engineering Service Contract, REA Form DS-144R2, for Line Construction - Labor and Material (Distribution Systems)
196	Form of Subcontract for Distribution Line Construc- tion under Construction Contracts, REA Form DS-7R2 and REA Form DS-70R4
197	Transmission Line Wood Cross Arm and Cross Arm Brace Specifications
198	Supplement No. 1 to Materials Contract, REA Form DS-18R6
199	Construction Procedures for REA Borrowers - Purchasing ACSR from Wisconsin Electric Coopera- tive
200	Engineering Service for Distribution - Type Borrowers
201R2	24.9/14.4 KV Distribution Systems
202	Engineer's Weekly Report of Progress of Construc- tion and Engineering Services-REA Form DS-27R3
203	Construction of Lines Across Lands Under Jurisdic- tion of the United States Forest Service
205	Off-Peak Water Heater or Other Load Control Equipment
206	Names of Material Suppliers and Manufacturers in Labor and Material Construction Contracts
207	Transmission Line Manual - Physical Design Considerations
208	Inclusion of Prevailing Wages in Construction Contracts For Distribution and Transmission Line Construction
210	Inclusion of Prevailing Wages in Construction Contracts For Generating Plant and Building Construction

4 - Current Engineering Memoranda

<u>NUMBER</u>	<u>TITLE</u>
211	Final Inventory, REA Form DS-196ABCD, for Use with Construction Contract, Labor and Material, REA Form DS-7R2
213	Final Inventory Documents - Materials Furnished By Borrowers
214	Purchase Cost of Transformers
215	Restaking of Lines of Distribution-Type Borrowers
402	Substation Inspection and Maintenance
403	Painting of Steel Substation Structures and Fences
404	Transformer Maintenance and Operation
405	Recloser Maintenance
406	Chemical Brush Control
407	Line Switches - Operation
408	Interruption Reports
409	Portable Recording Voltmeters for Use by Distribution Type Borrowers
410	"Men at Work" Tags
411	Periodic Voltage and Load Surveys
412	Distribution Transformer Records
414	Record of Operations at Sectionalizing Points
501	Engineering Services for REA Telephone Borrowers
503	Methods for Construction of Telephone System Facilities
504	Construction of a Project by Force Account
505	Form of Subcontract for Telephone System Construction under Construction Contracts, REA Form DS-T-10